[002] This application claims priority from German Application Serial No. 103 07 017.6 filed February 20, 2003.

[003] FIELD OF THE INVENTION

[004] The invention concerns a distributor gear with an adjustable coupling ~~according to the type defined in greater detail in the preamble of patent Claim 1~~.

[005] BACKGROUND OF THE INVENTION

[011] ~~According to the invention, this task is achieved with a distributor gear according to the characteristics of patent Claim 1.~~

[012] SUMMARY OF THE INVENTION

[016] BRIEF DESCRIPTION OF THE DRAWING

[017] ~~Additional advantages and advantageous further developments of the object of the invention result from the patent claims and the embodiment described with respect to the basics~~ The invention will now be described, by way of example, with reference to the ~~drawing.~~ accompanying drawings in which:

[018] ~~The sole figure~~ Fig. 1 shows a partial section of a distributor gear, according to the invention, with a drive converter device, an electric motor and a coupling device for connection to an output shaft.

[019] DETAILED DESCRIPTION OF THE INVENTION

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Reference numerals

1	distributor gear
2	drive shaft
3	first output shaft, connecting flange
4	second output shaft, connecting flange
5	coupling device
6	first gear
7	intermediate gear wheel
8	second gear
9	electric motor
10	drive converter device
11	spur wheel step, transmission step
12	gear segment ring
13	additional gear
14	rivets
15	spindle nut
16	spindle
17	thrust washer
~~18~~	~~axial bearing~~
19	lamella package
20	inner lamella
21	outer lamella
22	inner lamella support
23	outer lamella support
24	spring device
25	housing of the electric motor
26	rotor of the electric motor

1-8. (CANCELED)

9. (NEW) A distributor gear (1) with an adjustable coupling device (5) for a vehicle, in particular for the vehicle with a shiftable all wheel drive for distribution of an incoming drive torque via a drive shaft (2) between at least two output shafts (3, 4) whereby a first output shaft (4) can be connected with the drive shaft (2) via a coupling device (5), and where the coupling device (5) can be actuated via an electric motor (9) and a drive converter device (10) located between the electric motor (9) and the coupling device (5) for conversion of rotary movement of the electric motor (9) into a translatory actuation movement for the coupling device (5) wherein the electric motor (9) is integrated in a gear (7).

10. (NEW) The distributor gear according to claim 9, wherein at least a part of the drive torque of the drive shaft (2) is transferred to one of the output shafts (4) via the gear (7).

11. (NEW) The distributor gear according to claim 9, wherein the electric motor (9) is designed as a rotating field motor (Ket).

12. (NEW) The distributor gear according to claim 9, wherein a housing (25) of the electric motor (9) is constructed as a bearing of the gear (7).

13. (NEW) The distributor gear according to claim 9, wherein the drive converter device (10) is equipped with a spindle (16) and a spindle nut (15) on it.

14. (NEW) The distributor gear according to claim 13, wherein the spindle (16) is rotationally fixed and the spindle nut (15) can be rotated by the electric motor (9) whereby the spindle nut (15) has a same rotational direction as the drive shaft (2) during a closing process of the coupling device (15).

15. (NEW) The distributor gear according to claim 13, wherein the spindle nut (15) is rotationally fixed, and in that the spindle (16) can be rotated by the electric motor (9) whereby the spindle (16) has a same rotational direction as the drive shaft (2) during a closing process of the coupling device (5).

16. (NEW) The distributor gear according to claim 9, wherein the electric motor (9) is operated with transmission lubricant and cooling characteristics of the transmission lubricant are used for the electric motor.